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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,216	02/14/2006	Frans Johan Sarneel	19790006US1CER030018	6282
26191 7590 990442099 FISH & RICHARDSON P.C. PO BOX 1022			EXAMINER	
			TOUSSAINT, DALILA	
MINNEAPOL	JS, MN 55440-1022		ART UNIT	PAPER NUMBER
			1794	
			NOTIFICATION DATE	DELIVERY MODE
			09/04/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

Application No. Applicant(s) 10/568,216 SARNEEL ET AL. Office Action Summary Examiner Art Unit DALILA TOUSSAINT 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on May 4, 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 and 9-31 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 and 9-31 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- Claims 1-2, 6, 9-10 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakuma et al. WIPO publication 03067999.
 - a. Referring to claim 1-3, 6, 9-10 and 12-14, Sakuma discloses an oil/fat powder comprising 15 to 79.9 wt.% glyceride (fat) mixture, 20 to 84.9% of one or at least two powder (page 13, line 5) forming bases selected from carbohydrates, proteins and peptides, and 0.1-5 wt.% water (abstract). The powder forming base includes carbohydrates such as corn starch, alpha starch or starch octenylsuccinate ester (page 12, line 6) and protein such as whey (page 13, line 2). Starches are well known in the food art, though Sakuma doesn't specify natural and raw (untreated) starch, it would been within the general skill of a worker in the art to select a known material on the basis of its suitability as a matter of obvious choice to be used in processed foods. Furthermore, the composition may include antioxidants (page 16, line 15), emulsifiers (page 18, line 5), and flavor (page 22, line 5).

Sakuma discloses that the powder forming base can be selected from a variety of ingredients including protein and carbohydrates. Thus, it would have been obvious to one skilled in the art to select a combination of ingredients such as starch octenylsuccinate, protein, and another starch to obtain different nutritional factors, taste, texture and flavor.

It would have been obvious to vary the amounts of these ingredients depending on the nutrition, flavor and texture wanted as long as they fall within the range of 20 to 84.8%, which would fall within the ranges claimed. The amounts are variables that can be adjusted depending on the properties wanted. Such amounts can readily be determined by one skilled in the art following the guidance of Sakuma and through routine experimentation.

Moreover, the oil/fat powder of Sakuma is preferably used for preparation of an oil/fat-containing processed food, such as bakery food as seen in application example 4 (page 21, line 10-11 and line 17). Depending on the preferred viewpoints of taste, texture, storage stability and dispersibility the oil/fat powder content in the oil/fat-containing processed food is from 20% to 80%, though depending on the kind of food (page 22, line 9-15).

- Claims 1-4, 6-7, 9-10,12-25, and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sameel et al. WIPO publication 2004/084640 in view of Sakuma et al. WIPO publication 03067999.
 - b. Referring to claims 1-4, 6-7, 9-10 and 12-15, Sameel discloses a multipurpose dry mix comprising 15-28% w/w fat, 25-65% w/w carbohydrates, and 10-20% w/w proteins (Sameel; Abstract and page 3, ¶ 1). The dry mix is suitable for any product requiring a filling and which is then consumed as such, baked or fried, such as bread-rolls, pound cake, sponge cake, chiffon cake, and the like (Sameel; page 13, ¶ 5-8). The carbohydrates are selected from a group consisting of starch, starch hydrolysates, emulsifying starch.

and dextrin. The emulsifying starch is preferably starch n-octenyl succinate that can be undextrinized, dextrinized, cooked-up and/or mixture thereof. The dry mix further can contain in minor amounts vitamins, flavors, edible acids, and/or mixtures thereof (Sarneel; page 8-9).

Sarneel, further discloses a complete mix comprising the dry mix and a liquid selected from water, savory sauce, sweet sauce, dairy-based liquids, and mixtures thereof. The completed mix is based on a weight ratio of dry mix to liquid from 1:0.5 to 1:2 (Sarneel; page 11, ¶ 1-4). Thus, to choose a specific combination of dry composition to liquid composition would be within the ordinary ingenuity of one of ordinary skill in the art and would depend on the desired characteristics for the bakery product.

Sarneel, however, discloses a preferred amount of starch n-octenyl succinate that is outside the range of the instant claim and is silent to said protein being whey protein.

Sakuma discloses an oil/fat powder comprising 15 to 79.9 wt.% glyceride (fat) mixture, 20 to 84.9% of one or at least two powder (Sakuma; page 13, line 5) forming bases selected from carbohydrates, proteins and peptides, and 0.1-5 wt.% water (Sakuma; abstract). The powder forming base includes carbohydrates such as corn starch, alpha starch or starch octenylsuccinate ester (Sakuma; page 12, line 6) and protein such as whey (Sakuma; page 13, line 2). Starches are well known in the food art, though the combined reference doesn't specify natural and raw (untreated) starch, it would have been within the general skill of a worker in the art to select a known material on the basis of its suitability as a matter of obvious choice to be used in processed foods. Furthermore, the

composition may include antioxidants (Sakuma; page 16, line 15), emulsifiers (Sakuma; page 18, line 5), and flavor (Sakuma; page 22, line 5).

Sakuma discloses that the powder forming base can be selected from a variety of ingredients including protein and carbohydrates. Thus, it would have been obvious to one skilled in the art to select a combination of ingredients such as starch octenylsuccinate, whey protein, and another starch to obtain different nutritional factors, taste, texture and flavor. It would have been obvious to vary the amounts of these ingredients depending on the nutrition, flavor and texture wanted as long as they fall within the range of 20 to 84.8%, which is within the ranges claimed. The amounts are variables that can be adjusted depending on the properties wanted. Such amounts can readily be determined by one skilled in the art following the guidance of Sakuma and through routine experimentation.

Moreover, the oil/fat powder of Sakuma is preferably used for preparation of an oil/fat-containing processed food, such as bakery food as seen in application example 4 (Sakuma; page 21, line 10-11 and line 17). Depending on the preferred viewpoints of taste, texture, storage stability and dispersibility the oil/fat powder content in the oil/fat-containing processed food is from 20% to 80%, though depending on the kind of food (Sakuma; page 22, line 9-15).

Regarding the dry mix of Sameel, it would have been obvious to one having ordinary skill in the art at the time of invention to include the oil/fat powder of Sakuma to obtain desired nutritional factor, taste, texture and flavor in said food product.

c. Referring to claim 16-17, 24-25, 27-29, Sarneel discloses a complete mix comprising a dry mix and a liquid selected from water, savory sauce, sweet sauce, dairy-based liquids, and mixtures thereof. The completed mix is based on a weight ratio of dry mix to liquid from 1:0.5 to 1:2 (Sarneel; page 11, ¶ 1-4). The dry mix further comprises 10-20% w/w gluten (protein), 1-10% w/w starch n-octenyl succinate, and 5-15% w/w flour.

However, Sarneel is silent to said protein being whey protein or said starch being untreated starch.

Sakuma discloses an oil/fat powder comprising 15 to 79.9 wt.% glyceride (fat) mixture, 20 to 84.9% of one or at least two powder (Sakuma; page 13, line 5) forming bases selected from carbohydrates, proteins and peptides, and 0.1-5 wt.% water (Sakuma; abstract). The powder forming base includes carbohydrates such as corn starch, alpha starch or starch octenylsuccinate ester (Sakuma; page 12, line 6) and protein such as whey (Sakuma; page 13, line 2). Starches are well known in the food art, though Sakuma or Sarneel doesn't specify natural and raw (untreated) starch, it would have been within the general skill of a worker in the art to select a known material on the basis of its suitability as a matter of obvious choice to be used in processed foods. Furthermore, the composition may include antioxidants (Sakuma; page 16, line 15), emulsifiers (Sakuma; page 18, line 5), and flavor (Sakuma; page 22, line 5).

Sakuma discloses that the powder forming base can be selected from a variety of ingredients including protein and carbohydrates. Thus, it would have been obvious to one skilled in the art to select a combination of ingredients such as starch octenylsuccinate,

whey protein, and another starch to obtain different nutritional factors, taste, texture and flavor. It would have been obvious to vary the amounts of these ingredients depending on the nutrition, flavor and texture wanted as long as they fall within the range of 20 to 84.8%, which is within the ranges claimed. The amounts are variables that can be adjusted depending on the properties wanted. Such amounts can readily be determined by one skilled in the art following the guidance of Sakuma and through routine experimentation.

Moreover, the oil/fat powder of Sakuma is preferably used for preparation of an oil/fat-containing processed food, such as bakery food as seen in application example 4 (Sakuma; page 21, line 10-11 and line 17). Depending on the preferred viewpoints of taste, texture, storage stability and dispersibility the oil/fat powder content in the oil/fat-containing processed food is from 20% to 80%, though depending on the kind of food (Sakuma; page 22, line 9-15).

Regarding the dry mix of Sameel, it would have been obvious to one having ordinary skill in the art at the time of invention to include the oil/fat powder of Sakuma to obtain desired nutritional factor, taste, texture and flavor in said food product.

d. Referring to claims 18, 20, and 23, Sarneel discloses a liquid composition for use in bakery products comprising water, and optionally, one or more flavoring, colorant, vitamin, and/or mineral (Sarneel; page 11-12). For example, 35 weight % of a dry mix comprising 15% vital wheat gluten, 37% starch hydrolysate, 7% n-OSA starch, etc., is mixed with 65% by weight of apple puree and is then brought on top of a laminated pastry dough. Piece of peaches can be placed on top of the completed filling, and the total

is closed with pastry dough layer, before baking, the final result is sweet bakery product (see figure 5), (Sarneel; page 14, ¶ 3).

- Referring to claims 21 and 30, Sarneel discloses a process of baking the dough is carried out at a temperature in the range 170-225 °C (Sarneel; page 26, ¶ 1). Sarneel is silent to baking at the temperature of 160 °C, however, to find optimum working temperatures within a disclosed set of ranges is prima facie obvious.
- f. Referring to claims 22 and 31, Sameel discloses a process of baking the dough in a receptacle (Sarneel; page 14, ¶ 3). Sarneel is silent to a non-coated iron, however, it is notoriously well known in the bakery art to bake goods in iron pans, whether coated or non-coated. One would have been motivated to do so in order for the baked product to maintain its shape and the iron receptacle will even the heat distribution of the bake product while in the oven.
- 4 Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sarneel et al. WIPO publication 2004/084640 in view of Sakuma et al. WIPO publication 03067999 and further in view of Gisaw et al. US patent 6558730 B1.
 - Referring to claim 5. Sarneel and Sakuma fail to disclose the starch n-octenyl succinate as derived from high amylopectin source.

However, Gisaw disclose using a number of different starches within its dough preparation, such as the dry mix in example 1, contains raw corn (untreated) starch and modified starches (Gisaw; columns 8-9). Gisaw disclose in addition to it modified

starches such as waxy corn starch (which has high amylopectin) (Gisaw; column 8, line 37) the use of starch n-octenyl succinate and mixtures thereof.

It is common to include starch-based materials in the dough compositions of fabricated snacks. Typically, ingredients such as dried potato products are used in combination with a high amylopectin and/or pregelatinized starch. The high amylopectin starch and/or pregelatinized starch is used to provide a dough having desired performance properties (e.g., cohesive, non-adhesive, continuously sheetable) (Gisaw; column 1, line 28-35 and column 9, line 10-19) and to further improve the visco-clastic properties of the dough which is important for obtaining the desired internal structure as well as the final texture of the snack (Gisaw; column 4, line 43-45).

Regarding the starch of the Sarneel, it would have been obvious to one of ordinary skill in the art the time the invention was made to use varying mixtures of starches as taught by Gisaw, including n-octenyl succinate from waxy corn starch. One would have been motivated to do so to improve the visco-elastic properties of the dough which are important for obtaining the desired internal structure as well as the final texture of the snack (Gisaw; column 4, line 43-45) while at the same time provide a dough which produces an acceptable snack when fried.

- Claims 11 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sameel US publication 2002/0037351 in view of Takashima US publication 2001/0055638.
 - Referring to claims 11 and 26, Sameel discloses a composition to use in bakery products comprising untreated flour, and starch n-alkenyl succinate, and optionally starch

(Sarneel; abstract). The formulation of the composition consist of 60-95% w/w untreated flour, 5-30% w/w starch n-alkenyl succinate, and 0-50% w/w starch, wherein starch n-alkenyl succinate is from C6 and c16 succinate, preferably starch C8 (octenyl) succinate, and wherein starch n-alkenyl succinate is undextrinized, dextrinized, cooked-up, pregelatinized, or stabilized and/or mixture thereof (Sameel; ¶ 0037). Sameel further discloses wherein said bakery product normally comprises 0 to 40% egg and from 0 to 10% w/w emulsifier (Sameel; ¶ 0039).

Sarneel, however, is silent to said composition comprising whey protein.

Takashima discloses adding thermocoagulation proteins, such as whey protein, to fix the cellular sponge structure formed by coagulation during heating. Thus maintaining the swollen state of the bake good and preventing bake shrinkage. "The thermocoagulation proteins used in the present invention consist of proteins containing albumin and globulin, including, for example, egg white, casein, and whey protein." (Takashima; ¶ 0026). As seen throughout the disclosure examples, whey protein may be present from about 0-15 w/w% of the composition.

Regarding the composition of Sarneel, it would have been obvious to one having ordinary skill in the art at the time of invention to include whey protein as Takashima, to maintain the swollen state of the bake good and prevent baking shrinkage.

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Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, II F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 645 (CCPA 1962).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January I, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 11 and 26 are rejected on the ground of nonstatutory obviousness-type double
patenting as being unpatentable over claims 1, 4, 8 and 17 of U.S. Patent No. 6663909 B2 in
view of U.S. Publication No. 2001/0055638 A1.

The references and rejection are incorporated as cited in a previous Office action.

Response to Arguments

8. Applicant's arguments, see pages 6-8, filed 5/4/2009, with respect to the rejection(s) of claim(s) 1-4, 6, 9, 12-23, and 27-31 under 35 U.S.C. § 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sarneel et al. WIPO publication 2004/084640 in view of Sakuma et al. WIPO publication 03067999.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DALILA TOUSSAINT whose telephone number is (571)270-

7088. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Keith Hendricks can be reached on (571)272-1401. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DT

/KEITH D. HENDRICKS/

Supervisory Patent Examiner, Art Unit 1794